





Technology Deployment





Spectro Xepos XRF Analyzer (PCB Analyzer)

Problem

INEEL's Decontamination and Decommissioning project needed to detect regulated metals and polychlorinated biphenyls (PCB) in samples collected from inactive facilities.

Baseline Technology

Off-site laboratory analysis.

Innovative Technology

The PCB analyzer is a X-ray fluorescence spectrometer system that accepts a diversity of samples, including powders, liquids, slurries, granules, films and coatings, with little or no sample preparation.

Comparison

This analyzer requires 4 grams of sample material and provides analytic results within 10 minutes, compared with 100 gram samples required for off-site analysis that may take up to 90 days to complete.

Benefits

This analyzer enabled the project to obtain same day results, accelerate the schedule, and has a potential 10-year cost avoidance of approximately \$2.79 million.



Project: ID-ER-110
Decontamination and Decommissioning